

Amendments to the Claims:

Please amend the claims as shown. Applicant reserves the right to pursue any cancelled claims at a later date.

1.-13. (canceled)

14. (new) A method for detecting a radio coverage in a multicellular mobile radio system with a plurality of base stations connected to an evaluation unit, comprising:

 providing a plurality of base stations in a normal operating mode, the base stations communicatively connected to an evaluation unit;

 switching at least one of the plurality of base stations from the normal operating mode to a measuring operating mode;

 measuring a field strength by the base station in the measuring operating mode of each of the base stations locally adjacent to the measuring base station, the locally adjacent base stations in the normal operating mode;

 synchronizing the base station in the measuring operating mode with the base stations operating in normal mode;

 measuring a quality of the synchronicity and

 sending each measured field strength and measured synchronicity quality to the evaluation unit;

 switching the base station in the measuring operating mode to the normal operating mode, and

 evaluating the strength and quality by the evaluation unit;

 wherein the switching to the measuring operating mode, the measuring the field strength, the synchronizing, the measuring the quality, the sending, and the switching to the normal operating mode is repeated such that each of the plurality of base stations is switched to the measuring operating mode.

15. (new) A method in accordance with claim 14,

 wherein the radio coverage is detected in cycles, and

 wherein a current evaluation result being compared with a previous evaluation result.

16. (new) A method in accordance with claim 14, wherein the evaluation unit automatically controls the base stations and automatically evaluates the measured field strength data.

17. (new) A method in accordance with claim 14, further comprises modifying the mobile radio system by the evaluation unit based on a result of the evaluation.

18. (new) A method in accordance with claim 14, further comprising creating by the evaluation unit a field string map for determining the position of a mobile unit.

19. (new) A method in accordance with claim 14, wherein the mobile radio system is designed in accordance with a Digital Enhanced Cordless Telecommunications standard.

20. (new) A method in accordance with claim 14, wherein the measured field strength includes a base station identifier.

21. (new) A method in accordance with claim 20, wherein the measured field strength includes a base station identifier.

22. (new) A method in accordance with claim 21, further comprises modifying the mobile radio system by the evaluation unit based on a result of the evaluation.

23. (new) A method in accordance with claim 22, further comprising creating by the evaluation unit a field string map for determining the position of a mobile unit.

24. (new) An arrangement for detecting a radio coverage in a multicellular mobile radio system, comprising:

an evaluation unit; and

a plurality of base stations communicatively connected to the evaluation unit, the plurality of base stations including:

a measuring base station operating in a measuring operating mode, and

a locally adjacent base station relative to adjacent to the measuring base station,
the locally adjacent base station operating in a normal operating mode,
wherein the measuring base station measures a field strength of locally adjacent base
station and the measuring base station is synchronized with the locally adjacent base station, and
wherein the evaluation unit receives the measured field strength and a measured quality
of the synchronicity and evaluates the measure field strength.

25. (new) The arrangement as claimed in claim 24, wherein the measured field strength includes an identification of the measured base station.
26. (new) The arrangement as claimed in claim 24, wherein the evaluation unit modifies the mobile radio system based on a result of the evaluation.
27. (new) The arrangement as claimed in claim 24, wherein the evaluation unit creates a field strength map for determining the position of a mobile unit.
28. (new) The arrangement as claimed in claim 24, wherein the mobile radio system is designed in accordance with a Digital Enhanced Cordless Telecommunications standard.
29. (new) The arrangement as claimed in claim 24,
wherein the radio coverage is detected is in cycles, and
wherein a result of the current evaluation is compared with a result of a previous evaluation.
30. (new) The arrangement as claimed in claim 29, wherein the measured field strength includes an identification of the measured base station.
31. (new) The arrangement as claimed in claim 30, wherein the evaluation unit modifies the mobile radio system based on a result of the evaluation.
32. (new) The arrangement as claimed in claim 31, wherein the evaluation unit creates a field strength map for determining the position of a mobile unit.

33. (new) The arrangement as claimed in claim 32, wherein the mobile radio system is designed in accordance with a Digital Enhanced Cordless Telecommunications standard.